

Building Blocks of Knowledge

- In depot against driver station
 - Accessible by either alliance
- Robots deliver through Keyhole for HPs to place in Cache or Grid
- 86 Total BBoK
 - 43 Grey, 43 Brown

Nuggets of Knowledge

- Distributed to field by HPs at Drop Station, from Source
 - Alliance-specific Nugget Drop Zones, indicated by colored tape;
- Shoot into pillars
- 340 Total Nuggets

Source of STEM Knowledge

- Located at Nugget Drop station
- Holds 170 Nuggets to be distributed

Pillars of Knowledge

- Shoot Nuggets through high and low ports to score; equipped with smart scoring
 - Due to Pillars' movement, robots cannot score during Autonomous
 - Connect Pillar to Keystone by pushing in 3ft via linear slides
- Smart-scoring features:
 - Measures Nuggets by weight; scale in their bases
 - Visual feedback:
 - Rim lights: Indicate connections to Keystone
 - Side row of lights: Indicates levels (1 level = 10 Nuggets/1.14 lbs.)
 - Total of 8 levels

Ramp

- 2 Ramps: Both centered on field, against field wall

Grid - Connect-4-style grid

- In Keystone; on sides facing audience
 - Blocks are released once bar on underside is removed
- HPs *cannot* see their pattern - a wall obstructs their view
 - Audience side is plexiglass, making Runes visible

Runes

- Pattern inside Keystone's Grid; created using BBoK
- Symbols of STEM; **S**-Beaker; **T**-Circuit; **E**-Gear; **M**-Math Signs
 - *See **Game Overview** for Images**
- 8 Runes; Original for each letter in STEM (4) then an inverse of original symbols (+4)
 - Teams choose to create the original *or* its inverse
- HP create runes by dropping BBoK into cutouts in top of Grid
- 5 block x 5 block pattern
- Randomized by 2 coin flips prior to match

Capstone

- Can only move during Endgame
- Slides on top pillars

Keystone

- Walls around Center arena - 7ft high plexiglass
- Divided centrally-vertically for alliances
- Hole for Blocks of Knowledge called "Keyhole"